Fault Abstract for Cycle starting 6 November 2005

Week		Cycle Category
11/6 1	1/13 T	otal
0.7	0.1	0.9 VUV Downtime
0	0	0.0 VUV Regulation and Compliance Downtime
3.63	0.85	4.5 X-Ray Downtime
0	0	0.0 X-Ray Regulation and Compliance Downtime
9.5	1.08	10.6 Equipment Downtime
X-ray DT	Т	otal Type of Problem
0.36		0.36 RF Trip
1.92		1.92 X1 Gap Control
(0.53	0.53 Power Supply Glitch (XSXD)
(0.32	0.3 X-25 Al Trip
1.35		1.35 Power Dip
3.63	0.85	4.48
VUV DT	Т	otal Type of Problem
0.27	0.13	0.4 RF Trip
0.05		0.05 UV Database Micro
0.40	0.13	0.53 Power Dip
0.72	0.3	0.98

n.b. All times in hours

Faults for week starting 13 November 2005

Wk	Fault #	Date	Time	Group	XRDT	UVDT	EQD	Problem
В		We	eek of	November 13, 2005	0.85	0.13	1.08	
								2034hrs: VUV beam dump - URF1 reverse pwr trip occurred after
	LS05-0545	11/14/2005	2034	VUV RF Group	0	0.13		rampup.
								0718: X-ray ring is now ramped down and OPCO's have now opened
	LS05-0546	11/15/2005	718	User Group	0	0		ring up for E.R.Access for X5.
								BX Flag #8 has no illumination. Only the injected beam will be visable
	LS05-0547	11/15/2005		Controls/Diagnostics	0	0	0	when flag is inserted. No illumination.
								BX Flag #8 has no illumination. Only the injected beam will be visable
	LS05-0548	11/15/2005		Controls/Diagnostics	0	0		when flag is inserted. No illumination.
								BX Flag #8 has no illumination. Only the injected beam will be visable
	LS05-0549	11/15/2005		Controls/Diagnostics	0	0		when flag is inserted. No illumination.
								BX Flag #8 has no illumination. Only the injected beam will be visable
	LS05-0550	11/15/2005		Controls/Diagnostics	0	0		when flag is inserted. No illumination.
					_			BX Flag #8 has no illumination. Only the injected beam will be visable
	LS05-0551	11/15/2005	810	Controls/Diagnostics	0	0		when flag is inserted. No illumination.
								0611: Xray beam dumped to 65mA. Fast histories show XQB supply
	LS05-0552	11/16/2005	611	Power Systems Group	0.18	0		glitched at time of dump.
								0625: XRF1 tripped on the following:125KW Plate Undervoltage, 125KW
								Plate Crowbar, 125KW Line Overcurrent, and 125KW Screen
		44/45/0005	005	V D		9	0.4	Undervoltage. System tripped when beam dumped during X17
	LS05-0553	11/15/2005		X-Ray RF Group	0	0		rampdown.
	LS05-0554	11/19/2005	401	Controls/Diagnostics	0	0	0	0401: Uv Database micro has failed.
								0547 V Land Land December 1000 Land 1000 December 1000
	1.005.0555	44/40/0005	E 47	V D - M'-	0.00	0		0547: X-ray beam has dumped. Beam has dropped out to 19ma.Reason
	LS05-0555	11/19/2005	547	X-Ray Misc	0.23	0	0.23	for dump is unknown at this time.All magnets and Rf remain on.
	1.005.0550	44/40/0005	4040	D 0: 0	0.40	0	0.40	1619hrs: Xray beam dropout to 59mA. Ramping down for full current
	LS05-0556	11/19/2005	1619	Power Systems Group	0.12	0	0.12	refill.
								1626bro: Vroy boom dumped V25Al foult accurred at start of remove
	1 205 0557	11/10/2005	1626	V Pay Mico	0.32	0	0 22	1636hrs: Xray beam dumped - X25Al fault occurred at start of rampup after full current refill.
	LS05-0557	11/19/2005	1036	X-Ray Misc	0.32	U	0.32	arter ruii current reilii.

X-ray Statistics for week starting on 13 November 2005

Operations		
Scheduled operations	120	[hr]
Expected number of scheduled fills	11	
Fills completed as scheduled (start and finish)	8	
Anticipated Fill Budget (45 min. per fill)	8.25	[hr]
Anticipated Operating Beam Available	111.8	[hr]
Total fill time during scheduled operations	7.1	[hr]
Delivered beam during scheduled operations	112.1	[hr]
Total beam available (including unscheduled ops)	137.0	[hr]
Disruption Statistics		
Number of disruptions	3	
Total lost operations time	0.9	[hr]
Average time between disruptions	77.3	[hr]

One fault during an injection shows only as a long fill time

Some degraded operation due to CFN construction

CONCISE STATUS:

Berman Meter Operations for the Week of 13 November 2005



Three user disruptions

Some disruption from CFN Construction



UV Statistics for week starting on 13 November 2005

Operations				
Scheduled operations	128	[hr]		
Expected number of scheduled fills	37			
Fills completed as scheduled (start and finish)	38			
Anticipated Fill Budget (5 min. per fill)	3.1	[hr]		
Anticipated Operating Beam Available	124.9	[hr]		
Total fill time during scheduled operations	2.3	[hr]		
Delivered beam during scheduled operations	125.6	[hr]		
Total beam available (including unscheduled ops)	165.6	[hr]		
Disruption Statistics				
Number of disruptions	1			
Total lost operations time	0.1	[hr]		
Average time between disruptions 44.6				

n.b. One disruption during fill

CONCISE UV STATUS:

Dan-o-graph OPERATIONS FOR THE WEEK OF 13 NOVEMBER 2005





UV disruption time 0.1 hr 125.6 hours of user beam

Ring	Χ	U
Schedule	В	В
Sunday	O/S	0
Monday	SIS	0
Tuesday	S/O	S
Wednesday	Ο	S
Thursday	Ο	0
Friday	Ο	0
Saturday	Ο	0

Fill Metrics	Χ	U		
Week Starting on November 13, 2005	В	В		
Planned number of User Fills	11	37		
Total Number of User Fills	11	37		
Fills to scheduled completion	8	38		
Disruptions during Operations 3				
Average Time between Disruptions [hr]	77.3			
Disruptions Requiring Repairs	2			
Average Time to Recover [min] 22.3				
Average User Fill Time [min]	38.6			

Planned X-ray Hours			Actual X-ray Hours		
Maintenance	6		Maintenance	6	
Studies	42		Studies	17	
Operations	120	120	Scheduled Op'n	120	120
•			Unscheduled Op'n	25	25
Fill Budget		(8.3)	Fills		(7.1)
Planned User Hours		111.8	Maximum User Hours		137.9
			Disruptions		(0.9)
Delivered Operations		112.1	Delivered User Beam		137.0